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NORTH AMERICAN DRÄGER

PRODUCT BULLETIN

Product(s):	Narkomed 4, Narkomed 2C
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Subject: New Ventilator AV2+ is Currently Available

The AV2+ Ventilator is a standard component of all newly manufactured Narkomed 2C and Narkomed 4 anesthesia systems. The AV2+ provides our customers with the entire range of ventilation capabilities of the AV2 with added benefits.

As you are well aware, the AV2 ventilator is a time-cycled, pressure limited, volume-preset ventilator with independent controls for tidal volume, pressure limiting, I:E ratios and inspiratory flow. The AV2 has two controls that are utilized to activate the ventilator.The Manual/Auto selector switch has to be shifted to Auto and the Ventilator knob has to be turned to the On position. Please refer to Figure 1.

The AV2+ provides clinicians with the advantage of only having to shift the Manual/Auto selector valve to Auto to activate the AV2+ ventilator. Shifting the Manual/Auto selector switch to Manual will turn Off the ventilator. The ventilator control knob can also be used to turn the ventilator On and Off (with the selector in the Auto position). Either way, a green LED, next to the ventilator On label, will be illuminated when the ventilator is turned On. Please see Figure 2.

A second feature of the new ventilator provides clinicians with the capability of using Inverse I:E ratios for the performance of extended inspiratory time ventilation. The inverse ratio settings include 2:1, 3:1 and 4:1. This type of ventilation is referred to as Inverse Ratio Ventilation or IRV**.**

A safety mechanism is built into the AV2+ to prevent unintentional use of inverse ratio modes. A button, located on the bottom left-hand side of the I:E ratio knob, must be pressed when the I:E ratio knob is turned to access the various inverse ratio settings. Please refer to Figure 2.

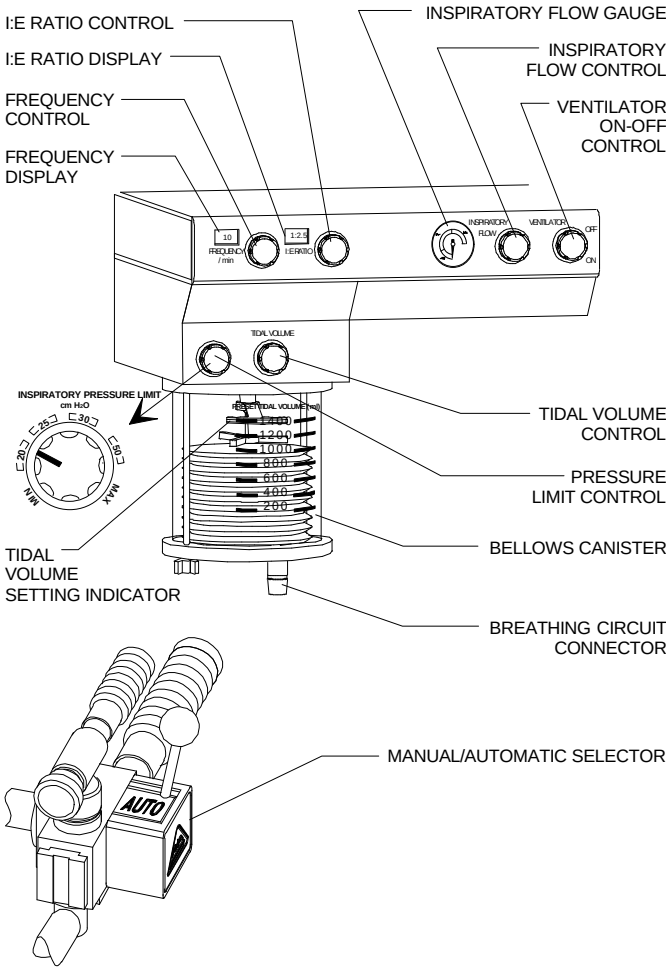

Figure 1: AV2 Ventilator with Manual/ Auto Selector Switch

Inverse Ratio Ventilation (IRV) modes are used primarily for patients with Adult Respiratory Distress Syndrome (ARDS) or neonatal respiratory distress syndrome. The AV2+ is beneficial for clinicians who wish to use inverse ratios during critical operative cases. Prior to the development of the AV2+ ventilator, if inverse ratios were required, an ICU ventilator would have to be brought into the operating room environment. The AV2+ ventilator provides our customers with more comprehensive ventilation modes.

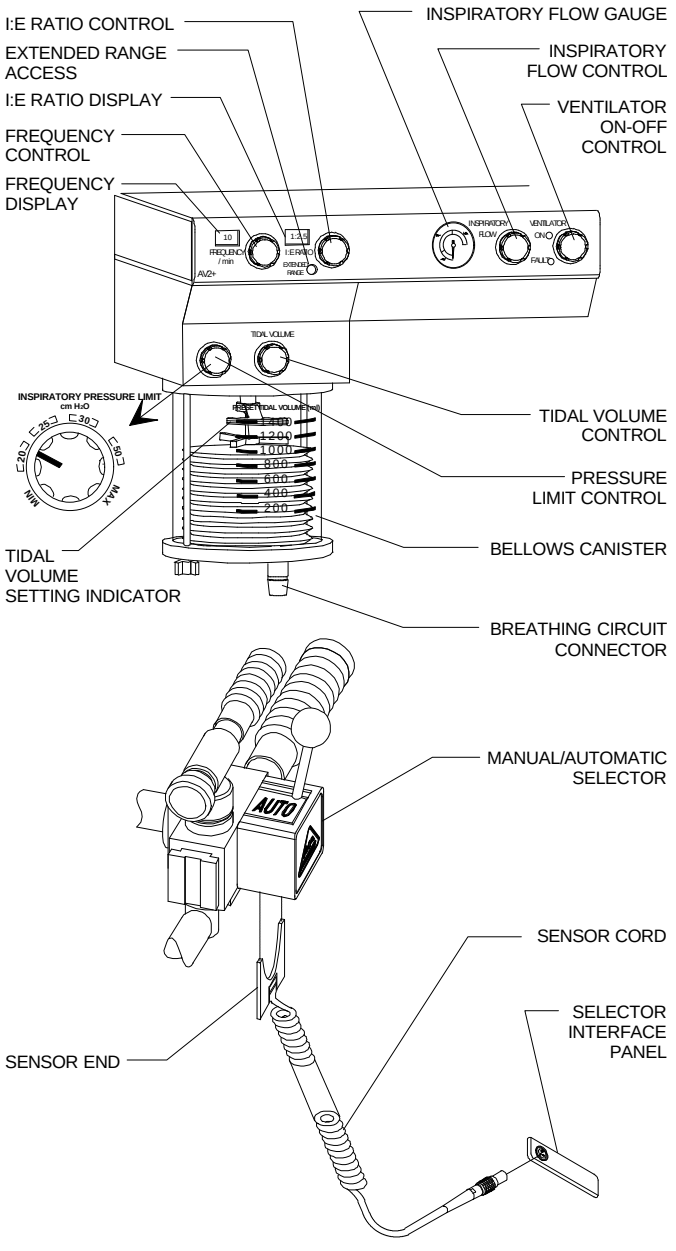

Figure 2: AV2+ Ventilator with Manual/Auto Selector Switch with New Selector Interface Cable

AV2+ Specifications:

Frequency.....1-99, +-1 BPM (in 1BPM increments)

I:E Ratio.....Standard range: 1:1-1:4.5, +-0.1 (in increments of 0.5); Extended range: 4:1, 3:1, 2:1

Inspiratory flow.....10-100 l/min (uncalibrated)

Tidal Volume.....50-1500 ml,+-100 ml

Pressure limit control adjustment range.....15-120 cmH2O

PEEP (optional).....2-15 cmH2O (continuously adjustable)

Note: The next AV2+ Product Bulletin will give a detailed description of the retrofit kits required to add AV2+ ventilators to existing Narkomed 2C and Narkomed 4 anesthesia systems with AV2 ventilators.

If you have any questions or require further information please contact Nadine Opstbaum at 1-800-462-7566.